

ABSTRACT OF THE DISCLOSURE

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A transmitting apparatus for cross connecting and transmitting main signals which enter via ring-configured transmission lines to which working and protection channels have been assigned in first and second directions, and rescuing a main signal by looping back the main signal in the opposite direction using the protection channel when a transmission line fails. Storing non-rescue information which indicates whether each channel that is the object of rescue by loop-back is a non-rescue channel. Determining whether a failure for which rescue is impossible has occurred in each channel, which is the object of rescue, other than a non-rescue channel. On the basis of main-signal cross-connect information, interchanging a result of discrimination of each channel and inserting the interchanged result of discrimination in the main signal of the corresponding channel after cross connect.